

ABSTRACT OF THE DISCLOSURE

An optical receiver and an optical transmitter and a producing method thereof using a variable optical attenuator includes a base member formed in a predetermined shape; an input optical fiber emitting an optical signal toward the
5 base member; an optical receiving means provided at one side of the base member, and receiving an optical signal; and a variable optical attenuator actuated by an electrostatic force, changing a path of laser emitted from the input optical fiber, and thus adjusting optical power made to be incident to the optical receiving means. Positions of the input optical fiber and the optical receiving means can be
10 changed, and the variable optical attenuator can be produced by a MEMS technology so that the variable optical attenuator can be produced with a low unit price, actuated with small electric power, and can transmit an accurate optical signal.